

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

Application Number	10541496
Filing Date	2006-01-12
First Named Inventor	Heinz-Dieter Metzemacher
Art Unit	3742
Examiner Name	Robinson, D. L.
Attorney Docket Number	5628-26320

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	1	4739007		1988-04-19	Okada et al.	
	2	4664820		1987-05-12	Magauran et al.	
	3	4695402		1987-09-22	Finlayson et al.	
	4	4866018		1989-09-12	Elliot	
	5	4402681		1983-09-06	Alther	
	6	3576388		1971-04-27	Burns	
	7	4255318		1981-03-10	Kaide et al.	
	8	4391637		1983-07-05	Mardis et al.	

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9	4517112		1985-05-14	Mardis et al.	
10	4474706		1984-10-02	Clay et al.	
11	4517112		1985-05-14	Mardis et al.	
12	4546126		1985-10-08	Breitenfelner, et al.	
13	4472538		1985-09-18	Kamigaito et al.	
14	4582866		1986-04-15	Shain	
15	4874728		1989-10-17	Elliot et al.	
16	5017637		1991-05-21	Smith et al.	
17	5132350		1992-07-21	Keogh	
18	5236985		1993-08-17	Hayami	
19	5429999		1995-07-04	Nae et al.	

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20	5554670		1996-09-10	Giannelis et al.	
21	4558075		1985-12-10	Suss et al.	
22	5773502		1998-06-30	Takekoshi, et al.	
23	5827906		1998-10-27	Metzemacher et al.	
24	6034163		2000-03-07	Barbee et al.	
25	6130256		2000-10-10	Nao	
26	6139962		2000-10-31	Herget et al.	
27	6380295		2002-04-30	Ross et al.	
28	6794437		2004-09-21	Ross et al.	
29	6605655		2003-08-12	Kato et al.	
30	4708975		1987-11-24	Shain	

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31	4777206		1988-10-11	Rittler	
32	4826899		1989-05-02	Rees	
33	5091462		1992-02-25	Fukui et al.	
34	5164460		1992-11-17	Yano et al.	
35	5780376		1998-07-14	Gonzales et al.	
36	6084008		2000-07-04	Liu	
37	6414070		2002-07-02	Kausch et al.	
38	6451895		2002-09-17	Topolkaev et al.	
39	6492453		2002-12-10	Ebrahimian et al.	
40	6583209		2003-06-24	Mehta et al.	
41	6610770		2003-08-26	Ross et al.	

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42	6632868		2003-10-24	Qian et al.	
43	6649713		2003-11-18	Tang et al.	
44	6683122		2004-01-27	Zilg et al.	
45	6759464		2004-07-06	Ajban et al.	
46	6794437		2004-09-21	Ross et al.	
47	6822035		2004-11-23	Chaiko	

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	1	20060155018		2006-07-13	Metzemacher et al.	
	2	20070072980		2007-03-29	Seeling et al.	
	3	20070072980		2007-03-29	Rainer et al.	

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	1	55112248	JP		1980-08-29	Eurukawa Electric Co. Ltd.	abstract	<input type="checkbox"/>
	2	62101644	JP		1987-05-12	Sumitomo Bakelite Co. Ltd.	abstract	<input type="checkbox"/>
	3	62181144	JP		1987-08-08	Toray Industries	abstract	<input type="checkbox"/>
	4	63030588	JP		1988-02-09	Fujikura Ltd		<input checked="" type="checkbox"/>
	5	63260957	JP		1988-10-27	Yoshito	abstract	<input type="checkbox"/>
	6	63273693	JP		1988-11-10	Hitachi Cable Ltd.	abstract	<input type="checkbox"/>
	7	10139998	JP		1998-05-26	Kyoji et al.		<input checked="" type="checkbox"/>
	8	11228748	JP		1999-08-24	Sokiso Chem Co. Ltd.	abstract	<input type="checkbox"/>
	9	10204298	JP		1998-08-04	Kyowa Chem Co. Ltd.		<input checked="" type="checkbox"/>

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10	97/31873	WO		1997-09-04	Southern Clay		<input type="checkbox"/>
11	995630	JP		1997-04-08	Kensuke		<input checked="" type="checkbox"/>
12	0066657	WO		2000-11-09	Alcan Int. Ltd.		<input type="checkbox"/>
13	0078540	WO		2000-12-28	Singh		<input type="checkbox"/>
14	02100936	WO		2002-12-19	Dias		<input type="checkbox"/>
15	0140369	WO		2001-06-07	Bagrodia et al.		<input type="checkbox"/>
16	9730950	WO		1997-08-28	Gonzales et al.		<input type="checkbox"/>
17	1118723	GB		1968-07-03	Dunning		<input type="checkbox"/>

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## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	Giannelis "Flame Retardant Nanocomposite Materials", Annual Conference on Fire Research NISTIR 6242, November 2-5, 1998, pages 39-40.	<input type="checkbox"/>

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2	Miller, ed. "Tiny Clay Particles pack potent properties punch" <i>Plastics World</i> , October 1997, pages 36-38.	<input type="checkbox"/>
3	LIU, Y. et al., "Preparation of polypropylene/polystyrene/montmorillonite nano-composites", <i>China Plastics</i> , Vol. 16, No. 2, February 2002.	<input type="checkbox"/>
4	Kyaowa Chemical Industry Co., Ltd. Product "Additives for Resins", 1997, 2 pages	<input type="checkbox"/>
5	Gilman et al. "Nanocomposites: A Revolutionary New Flame Retardant Approach," <i>SAMPLE Journal</i> , Vol. 33 No. 4, 1997, pps 40-46.	<input type="checkbox"/>
6	Gilman et al. "Flammability and Thermal Stability Studies of Polymer Layered-Silicate (Clay) Nanocomposites-II" <i>Flame Retardancy, 10th Annual BCC Conference</i> , May 24-26, 1999, pp. 1-11.	<input type="checkbox"/>
7	Notice of Opposition to EP Patent No. 1560879 filed March 7, 2007 17 pages.	<input type="checkbox"/>
8	Notice to of Opposition to EP Patent No. 1177252, filed March 15, 2006, 11 pages.	<input type="checkbox"/>
9	Notice to of Opposition to EP Patent No. 1177252, filed February 24, 2006, 6 pages.	<input type="checkbox"/>
10	Observations by Third Party to EP Patent Application No. 00910805 filed September 9, 2004, 8 pages	<input type="checkbox"/>

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